Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:

Alaska Phocid Health and Disease

1.2. Summary description of the data:

Polar Ecosystems Program research projects focus primarily on abundance, trends, distribution, health and condition, and foraging behavior of phocids (harbor, bearded, ringed, spotted, and ribbon seals) in Alaska. This database contains health and disease data obtained by analysis of different blood parameters, molecular analysis of swabs, stable isotope analysis, and contaminant analysis from seals across a variety of research projects. Biological samples (e.g. blood, tissue, hair, nasal swabs, and whiskers) have been collected from ribbon and spotted seals in the Bering Sea, bearded seals in the Bering and Chukchi Seas, and harbor seals in the north Pacific and Bering Sea. Ribbon seal samples were collected in 2005-2010, 2014; spotted seal samples were collected in 2005-2010, 2014; bearded seal samples were collected in 2007, 2009, 2011, 2012, 2014; ringed seal samples were collected in 2007-2009; harbor seal samples were collected in 2004-2006, 2012.

1.3. Is this a one-time data collection, or an ongoing series of measurements?

One-time data collection

1.4. Actual or planned temporal coverage of the data:

2004 to 2015

1.5. Actual or planned geographic coverage of the data:

W: 170, E: -130, N: 73, S: 50
Bering Sea, Chukchi Sea, Beaufort Sea

1.6. Type(s) of data:

(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Table (digital)

1.7. Data collection method(s):

(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys,

enforcement activities, numerical model, etc.)
Instrument: N/A
Platform: N/A
Physical Collection / Fishing Gear: N/A

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
Heather Ziel

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
Alaska Fisheries Science Center

2.4. E-mail address:
heather.ziel@noaa.gov

2.5. Phone number:

3. Responsible Party for Data Management
Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:
Heather Ziel

3.2. Title:
Data Steward

4. Resources
Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?
No

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):
Unknown

5. Data Lineage and Quality
NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality,

objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Lineage Statement:

Health and disease parameters are derived from blood, skin tissue, whiskers, hair, and swabs collected from wild, free ranging phocids in Alaska. These biological samples are collected in the field and are then sent to various labs for analyses. Serum samples were tested for antibodies to phocine herpesvirus-1 at the Wildlife Health Center at UC Davis; for antibodies to Leptospira spp. at the California Animal Health and Food Safety laboratory at UC Davis; for antibodies to Toxoplasma gondii and Sarcocystis neurona at UC Davis; for antibodies to influenza A at the Southeastern Cooperative Wildlife Disease Study at the University of Georgia; for antibodies to Brucella spp. at the Bacterial Special Pathogens Branch at the Centers for Disease Control and Prevention; for antibodies to Coxiella burnetii at the Centers for Disease Control and Prevention; and for antibodies to phocine distemper virus (PDV) at ??? Nasal swabs were examined by PCR for PDV and influenza at UC Davis. Blood components (whole blood, plasma) were analyzed for mercury content and haptoglobin content, and whiskers were analyzed for stable isotope analysis at the Marine Ecotoxicology and Trophic Assessment Laboratory at the University of Alaska, Fairbanks.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

Samples including blood, tissues, hair, and swabs are collected in accordance with established wildlife field techniques, veterinary practices, and under approved animal care protocols and research permits. Sterile techniques are employed if necessary during collection. Blood components and nasal swabs collected in the field are stored at a minimum of -20C while in the field, then stored at -80C for long-term storage at the lab. Skin tissue samples are stored in ethanol while in the field, then kept long-term at -80C in the lab. Whiskers and hair samples are stored in a container with desiccant to prevent samples from degrading. Sample analyses for disease, stable isotopes are conducted by experienced collaborators in laboratories that have well-tested protocols.

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

Yes

6.1.1. If metadata are non-existent or non-compliant, please explain:

6.2. Name of organization or facility providing metadata hosting:
NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:
https://inport.nmfs.noaa.gov/inport/item/17355

6.4. Process for producing and maintaining metadata
(describe or provide URL of description):
Metadata produced and maintained in accordance with the NMFS Data Documentation Procedural Directive: https://inport.nmfs.noaa.gov/inport/downloads/data-documentation-procedural-directive.pdf

7. Data Access
NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?
No

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?
No

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:
The data set is in the process of being archived with the NOAA National Centers for Environmental Information. Once the archival process is complete and verified, the data set will be publicly available.

7.2. Name of organization of facility providing data access:
Alaska Fisheries Science Center

7.2.1. If data hosting service is needed, please indicate:
not needed; planned for NCEI-MD

7.2.2. URL of data access service, if known:
http://www.nmfs.noaa.gov/data_not_yet_available

7.3. Data access methods or services offered:

The data set is in the process of being archived with the NOAA National Centers for Environmental Information. Once the archival process is complete and verified, the data set will be publicly available.

7.4. Approximate delay between data collection and dissemination:

unknown

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

data are not automatically processed

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

NCEI-MD

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):

Alaska Fisheries Science Center - Seattle, WA

8.3. Approximate delay between data collection and submission to an archive facility:

unknown

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

IT Security and Contingency Plan for the system establishes procedures and applies to the functions, operations, and resources necessary to recover and restore data as hosted in the Western Regional Support Center in Seattle, Washington, following a disruption.

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.